	SECURITY THEORMATION ENTRAL INTELLIGENCE AGENCY ORMATION REPORT	
COUNTRY USSR	DATE DISTR	-
	rinding Machine Factory NO OF PAGES	6 3
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- 1. Construction of the Molotov Boring and Grinding Machine Factory Kharkov Machine Factory began about 1931, was completed about 1934 and went into production immediately. Erection of the foundry began in 1936 and was completed in 1938. The factory was built by the Ministry of Heavy Industry. It was transferred to the control of the Ministry of Machine Tools about 1938. The factory employed 3,000-3,500 workers, about 400 of whom were women. Female workers were employed as draftsmen, inspectors, office workers, or cleaning women. None of them were engaged in heavy work.
- 2. The plant produced the following types of boring and grinding machinery:

Grinding Machines

	Length*	Diameter*	Model Number
a. b. c.	750 mm 750 mm 1,000 mm 1,500 mm 2,000 mm	150 mm 150 mm 200 mm 250 mm 250 mm	312 315 (hydraulic) 3A12 3A15 (hydraulic) 3B15 (hydraulic)

Production: 50-70 machines per month

* Length and diameter are the maximum size of the piece each machine was capable of handling.

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Radial Boring Machines

	Length		Maximum Bore	Model Number
a. b.	1,200 1,200	mm	50 mm 50 mm	256 2 A 56 (improved machine)
Prod	luction:	30-40 mach	ines per month	
_	1 mot	OM	25 mm	do not recall

Production: 50 machines per month. This was a small machine used in tractor repair factories and was a copy of a machine manufactured by the US Hammond Company.

Crankshaft Grinding Machine

Length	Diameter	Model Number
1,250 mm	150 mm	3H42

Production: 25 machines per month. This machine was used to regrind truck and tractor crankshafts on cooperative farms. It was a modification of a German machine manufactured by Kellenberger. The table on the modification was hand operated; on the original German machine the table was automatic.

Design Engineering

3•	was faulty, and it was produced only briefly. Model Number 3A15 was a modification of a German machine built by Colb. Model Number 3B15 was an original design based on the faulty and the body of the second secon	X1 OX OX OX
	Number 256 was a copy of a foreign machine, and model wanted 250 was a copy of a foreign machine	XC
[With the exception of Model Number 316, the designs were good 5	OX.
	50	XC
!		المر
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4.		
57		

50X1

		= end =	50X1
7	9.	machine at 3-5 yrs. A radial boring machine would possibly last longer radial boring machine in the Molotov machine shop was in service over sinyears.	99-
Φ_{0}	8.	the surface quality although generally the	e - f tion
i de la companya de	1.	when the Germans neared kharkov like the 1974, which the Germans neared kharkov like to the move to Kamara or Ufa in the Urals. We were allowed seven hours to dismantle 60-70 machines and load them on railroad cars for shipment. The machines were not packed or processed for shipment and parts of one machines would be loaded on different trains. This careless handling ruined 80% of the machinery. Any machines or material which we were unable to remove were destroyed. Quality of the Machines Produced - Life Span	ine 5 50Y1
	7	War-Time Relocation of the Molotov Plant When the Germans neared Kharkov in March 1942, the factory was ordered to)
	6.	Grinding machines were assembled in batches of ten. There was no conveyor assembly line. Cranes were used in the assembly shopthree small ones a large one.	rized and one
r .		Assembly Methods	
*	5•	All parts used in the machines were manufactured by the factory except heavy castings. Bases and tables for grinding machines were produced by the Kromatorsk Machine Tool Factory or the Kromatorsk Locomotive Works The Odessa Machine Tool Factory supplied the heavy castings for boring machines. The foundry at Molotov began production on a limited scale in 1939. It produced heavy castings after 1940 but its production was insufficient to supply the total requirements of the factory. percentage of heavy castings used by the factory were produced in the foundation was insufficient to supply the total requirements of the factory.	fi-
		Parts Production	
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OVERLAY USAF TARGET MOSAIC- SERIES 10 0734-0155-10 M KHARKOV MACHINE TOOL PLANT "MOLOTOV" KHARKOY USSR

- (1) MACHINE! SHOP!
- (2) ASSEMBLEY SHOP

- (3) OFFICE
 (4) HEAVY MACHINE SHOP
 (5) EXPERIMENTAL AND INSTRUMENT SHOP
- (C) POWER STATION
- (7) FOUNDRY
- (8) WAREHOUSE
- (9) KHARKOV TRACTOR FACTORY (XC. T.3)
- (10) PROJECTED AIRPLANE FALTORY (UNDER CONSTRUCTION)

